

Title (en)

Digital finite impulse response filter

Title (de)

Digitales Filter mit endlicher Impulsantwort

Title (fr)

Filtre numérique à réponse impulsionnelle finie

Publication

**EP 1703637 A3 20060927 (EN)**

Application

**EP 06013117 A 20010803**

Priority

- EP 01306682 A 20010803
- JP 2000371058 A 20001206

Abstract (en)

[origin: US2002002572A1] The FIR filter separately receives input data consisting of transmitting information and composed of bit strings, and additional data which is added in order to transmit the input data. The input data is operated with the additional data. A difference between the additional data corresponding to previous data (for instance, most recent data) among the input data and the additional data corresponding present data is obtained, and the difference and the previous data are operated. Then, the operation results are added and the resultant is outputted as a filter response. The input data and the additional data are separately received to be operated so that the circuit scale of the filter is reduced. Therefore, a chip of the semiconductor integrated circuit can be downsized and thereby cost reduction in the communication system can be realized.

IPC 8 full level

**H03H 17/06** (2006.01)

CPC (source: EP US)

**G06F 9/3893** (2013.01 - EP); **H03H 17/06** (2013.01 - EP US)

Citation (search report)

- [X] US 5892632 A 19990406 - BEHRENS RICHARD T [US], et al
- [A] EP 0088474 A2 19830914 - PHILIPS PATENTVERWALTUNG [DE], et al
- [A] GB 2201854 A 19880907 - UNIV CARDIFF

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**US 2002002572 A1 20020103**; **US 7028062 B2 20060411**; EP 1215819 A2 20020619; EP 1215819 A3 20050810; EP 1703637 A2 20060920; EP 1703637 A3 20060927; JP 2002176339 A 20020621; JP 4295428 B2 20090715

DOCDB simple family (application)

**US 92880301 A 20010813**; EP 01306682 A 20010803; EP 06013117 A 20010803; JP 2000371058 A 20001206